IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our name.

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional application(s) identified below:

Provisional application No. 60/090,451, filed on June 24, 1998

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled TWIN WAVEGUIDE BASED DESIGN FOR PHOTONIC INTEGRATED CIRCUITS which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

We acknowledge the duty to disclose all information known to us which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

We hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

We hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name 1st joint inventor: Stephen R. Forrest

Date 8 18 199 Inventor's signature

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Full name of 2nd joint inventor: Milind Gokhale

Inventor's signature_

Date 8 26 99

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Full name of 3rd joint inventor: Pavel Studenkov

Inventor's signature Nateu B. Confermed Date 18 Avg. 99

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ATTACHMENT A

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Telephone calls should be made to **Henry J. Walsh at Gibbons**, **Del Deo**, **Dolan**, **Griffinger & Vecchione** at:

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973-596-4500 or 973-596-4855

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<u>973-596-0545</u>

All written communications are to be addressed to:

Intellectual Property Docket Administrator
Gibbons, Del Deo, Dolan, Griffinger & Vecchione
One Riverfront Plaza, Newark, New Jersey 07105-5497

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Stephen R. Forrest, Milind R. Gokhale and Pavel Studenkov

Serial No.: Not Yet Assigned

DOCKET NO.: PUAS-0016

Filed: Herewith

For: TWIN WAVEGUIDE BASED DESIGN

FOR PHOTONIC

INTEGRATED CIRCUITS

Assistant Commissioner for Patents Washington DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agents for Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. 19,263	Lynn A. Malinoski	Registration No. 38,788
Dale M. Heist	Registration No. 28,425	Steven B. Samuels	Registration No. 37,711
Gary H. Levin	Registration No. 28,734	Anthony J. Rossi	Registration No. 24,053
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Robert B. Washburn	Registration No. 16,574	Thomas E. Watson	Registration No. 43,243
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			<u>-</u>

Joseph D. Rossi Rosaleen P. Morris George J. Awad Steven D. Maslowski S. Maurice Valla Vincent J. Roccia Robin S. Quartin Patrick J. Farley Gregory L. Hillyer Susan C. Murphy Raymond N. Scott, Jr. David L. Marcus	Registration No. 47,038 Registration No. 47,321 Registration No. 46,528 Registration No. 46,905 Registration No. 43,966 Registration No. 43,887 Registration No. 45,028 Registration No. 42,524 Registration No. 44,154 Registration No. 46,221 Registration No. P48,666 Registration No. 46,897	Christine A. Goddard Ellen M. Klann Andrew J. Hagerty Emma R. Dailey Stephen C. Timmins Erich M. Falke Jane Inglese Janet E. Reed Scott E. Scioli Lawrence A. Aaronson John A. Harrelson Jeffrey J. King	Registration No. 46,731 Registration No. 44,836 Registration No. 44,141 Registration No. P48,491 Registration No. P48,481 Registration No. P49,049 Registration No. P48,444 Registration No. 36,252 Registration No. 47,930 Registration No. 38,369 Registration No. 42,637 Registration No. 38,515
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his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN, LLP at the above address.

Date:

John E. McGlyr

Registration No. 42,863

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